

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

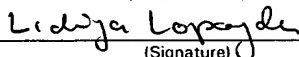
Applicant: Grier et al.

Title: APPARATUS FOR USING  
OPTICAL TWEEZERS TO  
MANIPULATE MATERIALS

Appl. No.: To Be Assigned

Filing Date: August 22, 2003

Art Unit: 2872

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| <b>CERTIFICATE OF EXPRESS MAILING</b><br>I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Express Mail No. EV 291979571US service under 37 CFR 1.10 on the dated indicated below and is addressed to the Commissioner for Patents, Alexandria, VA 22313-1450.<br><br>Lidija Lopojda<br>(Printed Name)<br><br><br>(Signature)<br><br>August 22, 2003<br>(Date of Deposit) |
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**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §1.56**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Applicants submit herewith on Form PTO-1449 a listing of the documents cited by or submitted to the U.S. PTO in both the parent application Serial No. 10/186,807, filed July 1, 2002 and the grandparent application Serial No. 09/845,045, filed April 27, 2001. As provided in 37 CFR §1.98(d), copies of the documents are not being provided since they were previously submitted to the United States Patent & Trademark Office in the above-identified parent application.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

**TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the filing date of the application.

**RELEVANCE OF EACH DOCUMENT**

All of the documents are in English.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO-1449 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 06-1450. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 06-1450.

Respectfully submitted,

Date Aug. 22, 2003

By Michael D. Rechten

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| Form PTO-1449<br>(MODIFIED)  |     | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE   |            | ATTY. DOCKET NO.<br>040563-0166 |       | SERIAL NO.             |                                  |    |
|--|-----|--|------------|---------------------------------|-------|------------------------|----------------------------------|----|
| <b>INFORMATION DISCLOSURE CITATION</b><br><br><i>(Use several sheets if necessary)</i> |     |  |            | APPLICANT<br>Grier et al.       |       |                        |                                  |    |
|  |     |  |            | FILING DATE<br>08/22/03         |       | GROUP ART UNIT<br>2872 |                                  |    |
| <b>U.S. PATENT DOCUMENTS</b>   |     |  |            |                                 |       |                        |                                  |    |
| EXAMINER<br>INITIAL  | REF | DOCUMENT<br>NUMBER   | DATE       | NAME                            | CLASS | SUB-<br>CLASS          | FILING DATE<br>IF<br>APPROPRIATE |    |
|  | A1  | 5,198,369  | 03/30/1993 | Itoh et al.                     | 436   | 534                    | 04/19/1991                       |    |
|  | A2  | 5,245,466  | 09/14/1993 | Burns et al.                    | 359   | 296                    | 10/08/1991                       |    |
|  | A3  | 5,512,745  | 04/30/1996 | Finer et al.                    | 250   | 251                    | 03/09/1994                       |    |
|  | A4  | 5,776,674  | 07/07/1998 | Ulmer                           | 435   | 6                      | 06/05/1995                       |    |
|  | A5  | 6,055,106  | 04/25/2000 | Grier et al.                    | 359   | 566                    | 02/03/1998                       |    |
|  | A6  | 6,139,831  | 10/31/2000 | Shivashankar et al.             | 424   | 82.05                  | 05/28/1998                       |    |
|  | A7  | 6,416,190  | 07/09/2002 | Grier et al.                    | 359   | 614                    | 04/27/02001                      |    |
|  | A8  | 5,079,169  | 01/1992    | Chu et al.                      | 436   | 174                    |                                  |    |
|  | A9  | 6,177,686  | 01/2001    | Gutierrez-Aitken                | 257   | 22                     |                                  |    |
|  | A10 | 5,430,308  | 07/1995    | Feichtner et al.                | 250   | 580                    |                                  |    |
| <b>FOREIGN PATENT DOCUMENTS</b>  |     |  |            |                                 |       |                        |                                  |    |
|  | REF | DOCUMENT<br>NUMBER   | DATE       | COUNTRY                         | CLASS | SUB-<br>CLASS          | TRANSLATION                      |    |
|  |     |  |            |                                 |       |                        | YES                              | NO |
|  |     |  |            |                                 |       |                        |                                  |    |
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|  |     |  |            |                                 |       |                        |                                  |    |
|  |     |  |            |                                 |       |                        |                                  |    |
| <b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>   |     |  |            |                                 |       |                        |                                  |    |
|  | A11 | David G. Grier, <u>Using Optical Tweezers to Manipulate Biological Samples</u> , April 21, 2001, The University of Chicago, Department of Physics, pp. 1-5.                |            |                                 |       |                        |                                  |    |
|  | A12 | Kevin M. Joyce et al., <u>Visible Light Inhibits Proliferation of the Human Monoblastic U937 Cell Line</u> , February 25, 1997, Biomechanical Society Transactions, p. 25. |            |                                 |       |                        |                                  |    |
|  |     |  |            |                                 |       |                        |                                  |    |
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| <b>EXAMINER</b>  |     |  |            | <b>DATE CONSIDERED</b>          |       |                        |                                  |    |